

MONTHLY WEATHER MAP

METEOROLOGICAL SERVICE

DOMINION OF CANADA

FEBRUARY 1934

TEMPERATURE

There was a very great difference between the temperature characteristics of eastern and western Canada during February, 1934. West of Lake Superior and Hudson Bay it was a very mild February, a large area from the Yukon to the southern prairies experiencing average temperatures twelve to eighteen degrees above the normal February average. From Lake Superior eastward to the Gulf of the St. Lawrence it was one of the coldest Februarys on record in the region of the Great Lakes and the St. Lawrence valley.

In British Columbia the normal February temperature was exceeded by four to six degrees on the Pacific coast, on Vancouver Island and on the lower mainland. In the upper Fraser valley the excess was six to nine degrees.

On the prairies the excess was very marked. In Alberta the greater part of the wheat region experienced temperatures more than fifteen degrees higher than is usual for this month. In the western portion of the grain zone of Saskatchewan the excess was fifteen to twenty degrees and in the eastern portion twelve to fifteen. In Manitoba the western section reported mean temperatures eight to twelve degrees above normal but in southeastern Manitoba the excess varied from zero on the Lake of the Woods to six degrees in portions of the Red River valley.

In the Yukon the excess was twelve to sixteen degrees and in the Mackenzie valley varied from nine degrees in the delta to twelve or thirteen degrees at the mouth of the Hay River.

In Ontario between Lake Superior and the Lake of the Woods there was a small deficiency of one or two degrees. Between Lake Superior and James Bay the deficiency ranged from twelve to fourteen degrees on the Height of Land to eight degrees on the shores of Lake Superior and James Bay. In the Lower Lakes region the deficiency was generally greater than ten degrees and amounted to fourteen degrees in some localities. At Toronto the mean temperature derived from the daily maxima and minima in February, 1934 was 10.2°F while the coldest February previously on record during 95 years was 9.3° in February, 1875. The lowest reading in the month at Toronto was 21° below zero which falls short of the previous record of 25° below on the 5th of February, 1855. The previous lowest daily mean in 55 years was 11.9° below zero on the 6th of February, 1895. In February, 1934 on the 8th the average for the day taken from 24 hourly readings was 16.0° below.

In Quebec the greatest departures from the February average occurred in the upper portion of the valley between Montreal and Quebec and in the tributary valleys on either side. The deficiency here was ten to fourteen degrees. In the lower portion of the valley the negative departures were three to eight degrees and in the more northerly regions of Lake St. John to Lake Abitibi six to ten degrees. Along the north shore temperatures averaged nearly normal.

In the Atlantic provinces negative departures from normal were five to ten degrees in New Brunswick and five to seven degrees in Nova Scotia but three degrees or more on Prince Edward Island. Sable Island off the Nova Scotian coast reported a mean temperature only one degree below normal.

At St. John the mean temperature for the last three months, December, 1933 and January and February, 1934, was 14.4° and constitutes a new low record since the commencement of the observations in 1861.

On the western shore of Hudson Bay the excess over the normal temperature ranged from eleven degrees at Churchill to only one degree at Chesterfield while at Nottingham Island in Hudson Strait the mean temperature was practically normal.

PRECIPITATION

In British Columbia the month was generally very dry. The deficiencies on Vancouver Island, the lower mainland and the north coast were generally thirty to fifty per cent. of the normal amount. In the southern interior valleys many points reported only ten to fifteen per cent. of the normal amount. Locally, at least, in the upper valleys the deficiency was considerably less.

On the prairies the month was very dry with negative departures reported from all stations except Le Pas in northern Manitoba. Over the greater portion of Alberta and Saskatchewan the total precipitation was less than three tenths of an inch. In these regions the normal amount for February is generally four to eight tenths so that the general precipitation in February, 1934 was approximately half of the normal amount. In Manitoba the deficiency was generally twenty-five to thirty per cent.

In Ontario the month was quite dry in all districts except from Lake Superior to the Lake of the Woods and locally from the Height of Land to James Bay. The general average amount was one and a half inches which is not far from the normal amount for the Upper Lake region and the Height of Land but is much below normal for the Lower Lake region. Here the normal amount is between two and three inches.

In Quebec the deficiency in the St. Lawrence valley was about twenty-five per cent. while in the northern regions the deficiencies were of somewhat higher order. In the region of the lower River and the Gulf there was a moderate excess over normal precipitation.

In the Atlantic provinces precipitation was for the most part greater than the normal amount particularly in Digby and Yarmouth counties of Nova Scotia. In Nova Scotia the excess varied from twelve to one hundred and ninety per cent. while in New Brunswick and Prince Edward Island there was an excess of five to forty per cent. Exceptions were the south shore of Nova Scotia where there were deficiencies of fifteen to forty-seven per cent. and in New Brunswick in the Miramichi valley where there was a deficiency of thirty per cent. Strong winds and gales occurred frequently in the Atlantic provinces during the second half of the month.

A. J. CONNOR

SPECIAL REPORTS

NOTE—Column H is Highest Temperature; Column L is Lowest Temperature; Column P is Precipitation in inches; Column I denotes total of bright sunshine in hours during the month; Column Tm is the mean temperature of the current month; Column Sg denotes depth of snow on ground in inches, where given.

BRITISH COLUMBIA

STATION	H	L	P	I	Tm	STATION	H	L	P	I	Tm	STATION	H	L	P	I	Tm
Cowichan Bay.....	52°	30°	1.8	130		Prince George.....	54°	-14°	0.6	138	27°	Kaslo.....			1.2		29°
Duncan.....	62°	23°	2.6			Agassiz.....	59°	32°	3.2	133		Cranbrook.....	50°	-5°	0.1		
Shawnigan Lake...	58°	26°	1.8			New Westminster.	60°	28°	3.6			Windermere.....	48°	-7°	0.0	125	
Sooke.....	61°	28°	2.8			Vancouver.....	58°	28°	3.0	119	44°	Kamloops.....	57°	11°	0.9	104	32°
Victoria.....	54°	35°	1.5	155	45°	White Rock.....	63°	31°	2.5			Salmon Arm.....	48°	8°	0.3	92	
Courtenay.....			4.3			Oliver.....	55°	17°	0.1	125		Field.....	45°	-15°	0.5		
Nanaimo.....	54°	29°	2.0	149		Penticton.....	54°	15°	0.1			Golden.....	46°	-19°	1.2		
Port Alberni.....	62°	26°	7.9			Summerland.....	50°	18°	0.1	144		Revelstoke.....	45°	2°	2.5		
Estevan Point.....			7.0	45°		Vernon.....	48°	11°	1.2	135							
Prince Rupert.....	60°	28°	5.6	80	42°	Greenwood.....	51°	5°	0.5								

ALBERTA

STATION	H	L	P	I	Tm	Sg	STATION	H	L	P	I	Tm	Sg
Beaverlodge.....	48°	-19°	0.3	135	24°		Olds.....	61°	-22°	0.2		26°	
Fairview.....	45°	-21°	0.5	86	18°		Perbeck.....	54°	-22°	0.0		24°	
Peace River.....	51°	-37°	0.0		19°		Calgary.....	66°	-26°	0.2	165	29°	
Entrance.....	60°	-19°	0.1		28°		Cardston.....	64°	-18°	0.3		31°	
Grouard.....	50°	-30°	0.0		18°		Cowley.....			0.6			
High Prairie.....	52°	-23°	0.2		23°		High River.....	70°	-28°	0.5		29°	
Slave Lake.....	47°	-27°	0.0		20°		Lethbridge.....	67°	-18°	0.3	117	31°	
Campsie.....	57°	-27°	0.4		22°		Lyndon.....			0.4			
Edmonton.....	52°	-25°	0.6	151	22°		Macleod.....	64°	-20°	0.2		32°	
Naco.....	45°	-20°	0.1		22°		Manyberries.....	55°	-21°	0.1		26°	
Rocky Mountain							Maycroft.....			0.4			
House	51°	-29°	0.2		18°		Medicine Hat.....	57°	-19°	0.1	153	29°	0
Thorsby.....	52°	-21°	0.2		24°		Seven Persons.....			0.1			
Viking.....	44°	-31°	0.4		17°		Strathmore.....	63°	-24°	0.1		26°	
Wabamun.....			0.3				Vulcan.....			0.2			
Wetaskiwin.....	59°	-19°	0.2		25°		Waterton Park....			0.3			
Hillsdown.....	55°	-20°	0.2		27°		Winnifred.....			0.2			
Jenner.....	53°	-17°	0.1		24°		Exshaw.....	51°	-22°	0.3		27°	

SASKATCHEWAN

Battleford.....	43°	-22°	0.3		17°	1	Kamsack.....	40°	-35°	0.5		10°	
Biggar.....	45°	-26°			17°		Lumsden.....	48°	-24°			20°	
Loon Lake.....	49°	-32°	0.2		16°		Midale.....	50°	-16°	0.2		20°	
Prince.....	44°	-25°	0.5		13°		Moose Jaw.....	52°	-20°	0.2	160	21°	0
Prongue.....			0.2				Muenster.....	37°	-30°			12°	
St. Walburg.....	45°	-33°	0.1		11°		Qu'Appelle.....	46°	-27°	0.1	148	17°	0
Scott.....	39°	-34°	0.4	134	15°		Regina.....	46°	-22°	0.3		18°	
Waseca.....	42°	-28°	0.6		16°		Whitewood.....	41°	-28°	0.2		14°	
Dundurn.....	42°	-25°	0.2		18°		Beechy.....	46°	-24°	0.1		20°	
Prince Albert.....	47°	-29°	0.1		17°	7	Chaplin.....	46°	-20°			19°	
Saskatoon.....	43°	-20°	0.1		18°		Climax.....			0.0			
Lintlaw.....	42°	-34°	0.3		11°		Gravelbourg.....	51°	-15°			23°	
Carlyle.....	41°	-26°	0.6		12°		Leader.....	50°	-18°			23°	
Ceylon.....			0.2				Leitchville.....			0.1			
Dana.....	39°	-31°	0.7		15°		Pennant.....	53°	-20°			24°	
Davidson.....	39°	-21°	0.1		16°		Rockglen.....			0.0			
Francis.....	50°	-17°			18°		Rosetown.....	41°	-22°	0.2		16°	
Ft. Qu'Appelle....	50°	-30°	0.1		17°		Shaunavon.....	54°	-21°			26°	
Grenfell.....	40°	-26°	0.1		14°		Surprise.....			0.1			
Hubbard.....	40°	-30°	0.3		12°		Swift Current.....	52°	-18°	0.2	156	25°	
Humboldt.....	47°	-25°			16°		Wapashoe.....			0.2			
Indian Head.....	45°	-23°	0.1		16°								

MANITOBA

Brandon.....	42°	-25°	0.1	132	11°	4	Sprague.....	38°	-47°	0.7		1°	
Forrest.....	41°	-27°	0.3			2	Winnipeg.....	41°	-36°	0.7	113	4°	30
Minnedosa.....	40°	-31°	0.4		8°	17	Great Falls.....	43°	-45°	0.4		0°	20
Russell.....	38°	-34°			8°		Pinawa.....	40°	-44°	0.6		1°	
St. Albans (Treesbank)	44°	-28°	0.4			T	Dauphin.....	44°	-31°	1.0		9°	36
Treherne.....	41°	-24°	0.5			18	Le Pas.....	56°	-42°	0.8		3°	
Graysville.....	40°	-27°	0.9		8°	12	Flin Flon Mine....	52°	-36°			1°	
Morris.....	40°	-32°			7°								

ONTARIO

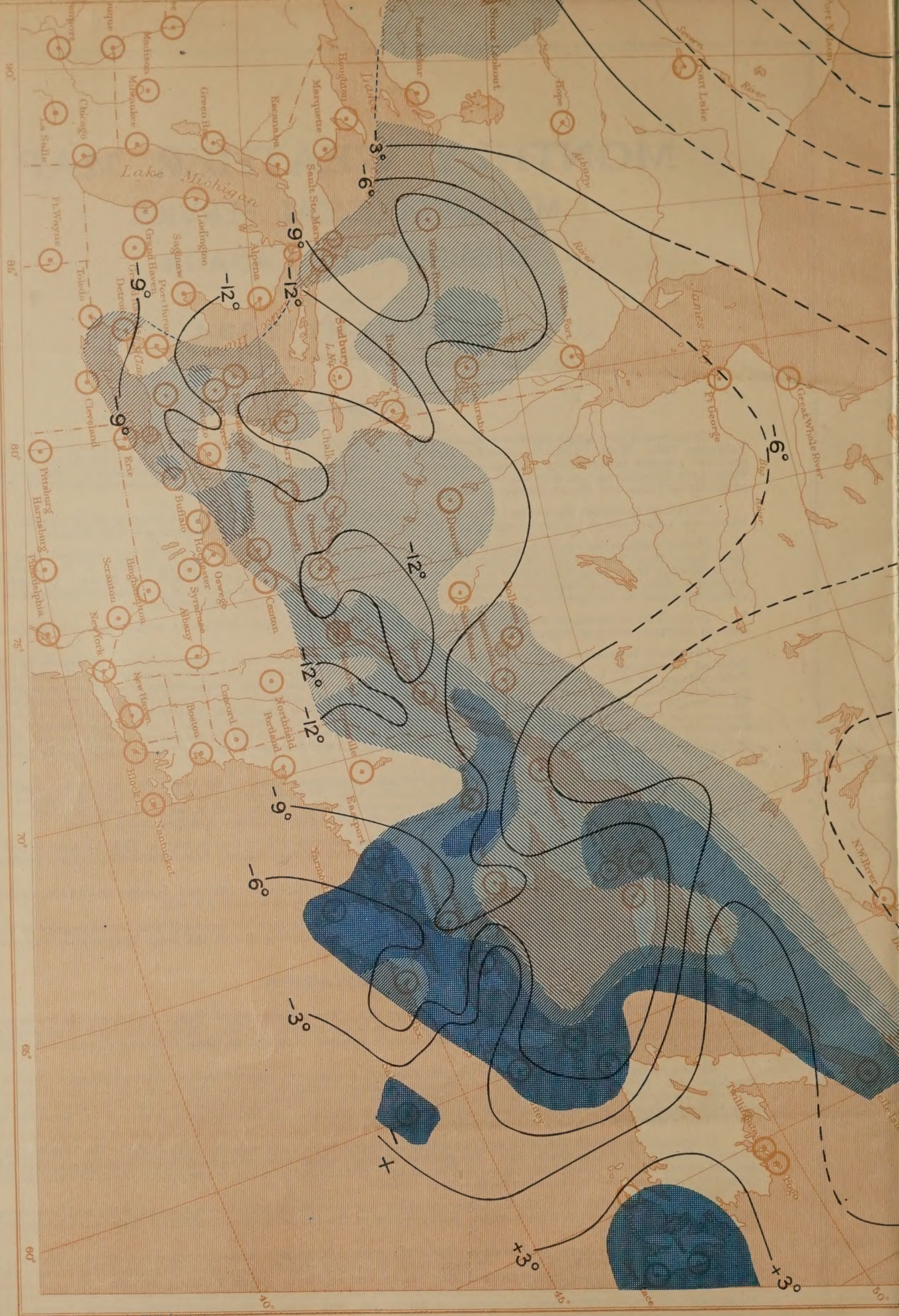
STATION	H	L	P	I	Tm	Sg.	STATION	H	L	P	I	Tm	Sg.
Biscotasing.....	29°	-48°	0.6		-6°		Lucan.....	35°	-32°	1.6		8°	6
Cochrane.....	28°	-40°	1.1		-8°		Mount Forest.....	30°	-42°	1.2		4°	30
Crystal Falls.....	33°	-56°	0.9		-6°	33	Stratford.....	35°	-29°	1.6		6°	12
Franz.....	28°	-50°	1.2		-7°	32	Woodstock.....	35°	-26°	1.0	150	7°	6
Haileybury.....	32°	-37°	0.9	150	-5°	16	Harrow.....	41°	-17°	0.6	139	17°	
Heaslip.....	33°	-48°	1.4		-9°	60	Pelee Island.....	43°	-17°	1.2		16°	3
Iroquois Falls.....	27°	-44°	2.0		-13°	48	Rock Chapel.....	37°	-20°	2.0		8°	
Kenora.....	36°	-34°	1.0				St. Catharines.....	41°	-12°	1.7		13°	8
Madawaska.....	32°	-50°	0.5		-4°		St. Thomas.....	41°	-27°	1.0		8°	6
Moosonee.....	24°	-44°	0.8		-12°		Simcoe.....	40°	-26°	1.4		10°	6
Port Arthur.....	38°	-29°	0.3		5°	16	Wallaceburg.....	35°	-18°	0.2		11°	T
Providence Bay.....	35°	0°	0.8		3°	24	Welland.....	42°	-24°	2.5		11°	10
Sioux Lookout.....			1.2		-3°	36	Orono.....	32°	-30°	2.3		6°	6
Timmins.....	30°	-38°	2.0		-7°	87	Toronto.....	34°	-21°	0.9	148	10°	2½
Wawaitin Falls.....	29°	-52°	1.1		-10°	37	Apsley.....	30°	-46°	1.3		-1°	24
White River.....	30°	-52°	1.7		-8°	25	Fenelon Falls.....			1.0			25
Barrie.....	32°	-34°	1.3	137	4°	14	Lakefield.....	32°	-31°	1.5		4°	6
Beatrice.....	29°	-37°	0.8		0°	16	Peterboro.....	33°	-32°	1.5		4°	15
Beeton.....	33°	-29°	0.6		7°	2	Belleville.....	34°	-34°	1.6	174	6°	10
Eugenia.....	30°	-41°	0.8		-2°	13½	Brockville.....	33°	-27°	1.4		6°	19
Magnetawan.....	30°	-42°	1.7		-1°	21	Campbellford.....	32°	-34°	1.3		7°	12
Orillia.....	32°	-31°	0.7		0°	14	Clontarf.....	32°	-37°	1.2			29
Owen Sound.....	33°	-29°	1.5		5°	11	Healey Falls.....	35°	-35°			3°	
Parry Sound.....	30°	-33°	1.2		2°	19	Kemptville.....	33°	-32°	1.4		0°	27
Walker's Point.....	30°	-43°	1.4	151	-2°	22	Kingston.....	32°	-30°	1.7		6°	
Walkerton.....	33°	-43°	1.8			24	Morrisburg.....	33°	-32°	2.0		3°	19
Brucefield.....	32°	-36°	1.0		6°	10½	Ottawa.....	35°	-28°	1.6		2°	34
Lucknow.....	32°	-34°	2.1		5°		Ottawa (Exp. Farm)	33°	-37°	1.6	155	-5°	34
Southampton.....			1.8		4°	18	Pembroke.....	34°	-34°	1.4		1°	37
Alton.....	31°	-29°	0.8		4°	9	Picton.....	35°	-32°	2.6		9°	6
Brantford.....	35°	-30°	1.6		10°	8	Renfrew.....	32°	-36°	1.6		-5°	40
London.....	34°	-27°	1.2		8°	4							

QUEBEC

Berthierville.....	35°	-46°	2.7		-4°	39	St. Lin						
Beauceville.....	29°	-36°	1.9		4°		de Laurentides	28°	-40°	1.4		-4°	40
Cap Rouge.....	28°	-28°	3.9	106	2°	58	Sherbrooke.....	35°	-31°	1.8		2°	22
Cedars.....	35°	-27°	2.7		1°		Sorel.....	31°	-36°	2.1		-2°	43
Donnacoona.....	29°	-38°	2.0		-1°	80	Albanel.....	30°	-31°	0.6	132	-4°	30
Farnham.....	32°	-36°	1.8		1°	28	Roberval.....	30°	-31°	1.0		-6°	51
Hervey Junction.....	23°	-34°	1.6		-2°		Dolbeau.....	26°	-47°	1.2		-6°	38
Huberdeau.....	31°	-37°	1.7		1°	30	Doucet.....			1.4		-7°	
Joliette.....	31°	-39°	1.1		-2°		La Ferme.....	32°	-50°	0.8	130	-6°	
Lake Mégantic.....	34°	-38°	2.9		1°	31	Ville Marie.....	32°	-34°	1.7		-4°	
L'Assomption.....	31°	-46°	3.2	146	-4°	40	Anticosti S.W. Pt.			2.6		5°	
Lennoxville.....	37°	-43°	2.4	131	0°	24	Fame Point.....	34°	-10°	3.3		8°	50
Macdonald College.....	34°	-28°	2.4		2°	36	Father Point.....			2.1		7°	
Maniwaki.....	30°	-37°	1.3	180	-1°	56	Grindstone.....	42°	-10°	2.3		10°	24
Mont Laurier.....	30°	-45°	2.0			4	Harrington Harbr			4.0		10°	44
Montréal.....	32°	-25°	2.4	155	4°	29	Ste. Anne de la						
Nicolet.....	31°		1.7			34	Pocatière	30°	-21°	2.1	116	4°	
Québec.....			2.6	131	3°	42	Sanmaur.....	28°	-50°	0.7	113	-8°	
St. Gabriel de Brandon			2.2										

ATLANTIC PROVINCES

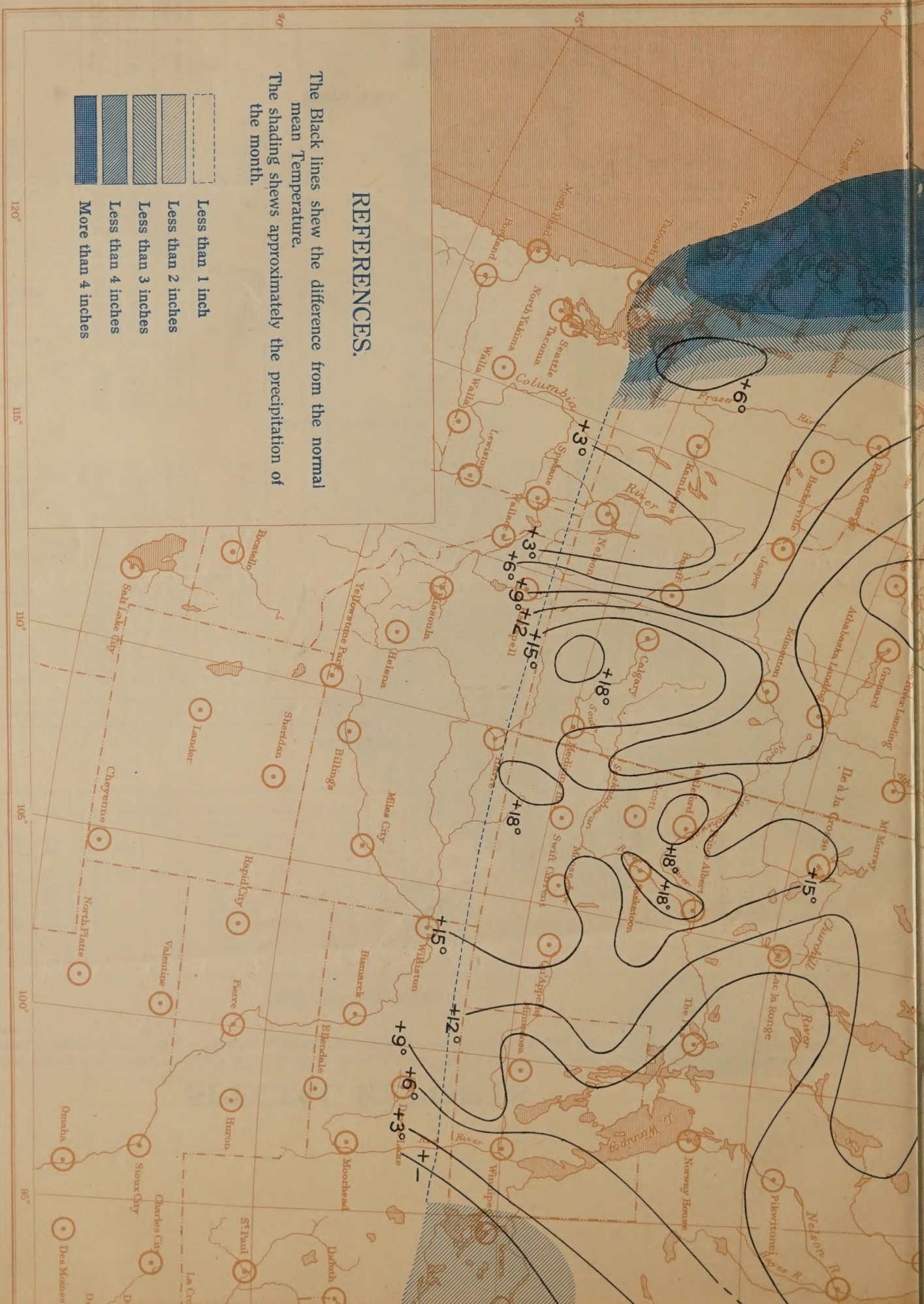
Aroostook.....	32°	-38°	3.2		-1°	40	Woodstock.....	35°	-38°	3.2		3°	60
Bathurst.....	40°	-25°	2.8		4°	68	Digby.....	45°	-8°	7.7		18°	24
Chatham.....	38°	-34°	2.0		4°	34	Halifax.....	46°	-12°	2.4		16°	3
Chipman.....	43°	-39°	4.5		3°		Kentville.....	49°	-14°	5.8	88	14°	24
Fredericton.....	41°	-32°	3.2	138	4°	51	(Experimental Farm)						
Fredericton.....	43°	-31°	3.4	136	6°	40	Liverpool.....	43°	-16°	4.8		19°	11
(Experimental Farm)							Nappan (Exp. Farm)	46°	-23°	4.6	100	10°	
Gagetown.....	43°	-30°	4.4		9°	42	Sydney.....	45°	-20°	5.3		15°	30
Grand Falls.....	33°	-36°	3.4		0°	84	Truro.....	54°	-27°	4.8		12°	
Harvey.....	41°	-35°	2.8		6°	60	Upper Stewiacke.....	50°	-32°	4.0		14°	4
Moncton.....	42°	-30°	3.4		5°		Wolfville.....	48°	-10°	5.6	106	15°	8
Musquash.....	42°	-22°	3.8		8°	30	Yarmouth.....	45°	-4°	7.6		20°	14
McAdam Junction.....	41°	-31°	4.6		3°	53	Charlottetown.....	45°	-19°	4.2		12°	18
Nepisiquit Falls.....	39°	-34°	2.3		5°	40	Charlottetown.....	44°	-21°	4.9	119	12°	
Richibucto.....	42°	-34°	3.3		4°	48	(Experimental Farm)						
Saint John.....	42°	-20°	4.2	146	12°	6	St. Paul Island.....			4.1		11°	
Sussex.....	45°	-30°	3.2		8°		Cape Race, (Nfld.)	42°	-8°	5.5		25°	3



MAP

1934

temperature; and total precipitation of the month.



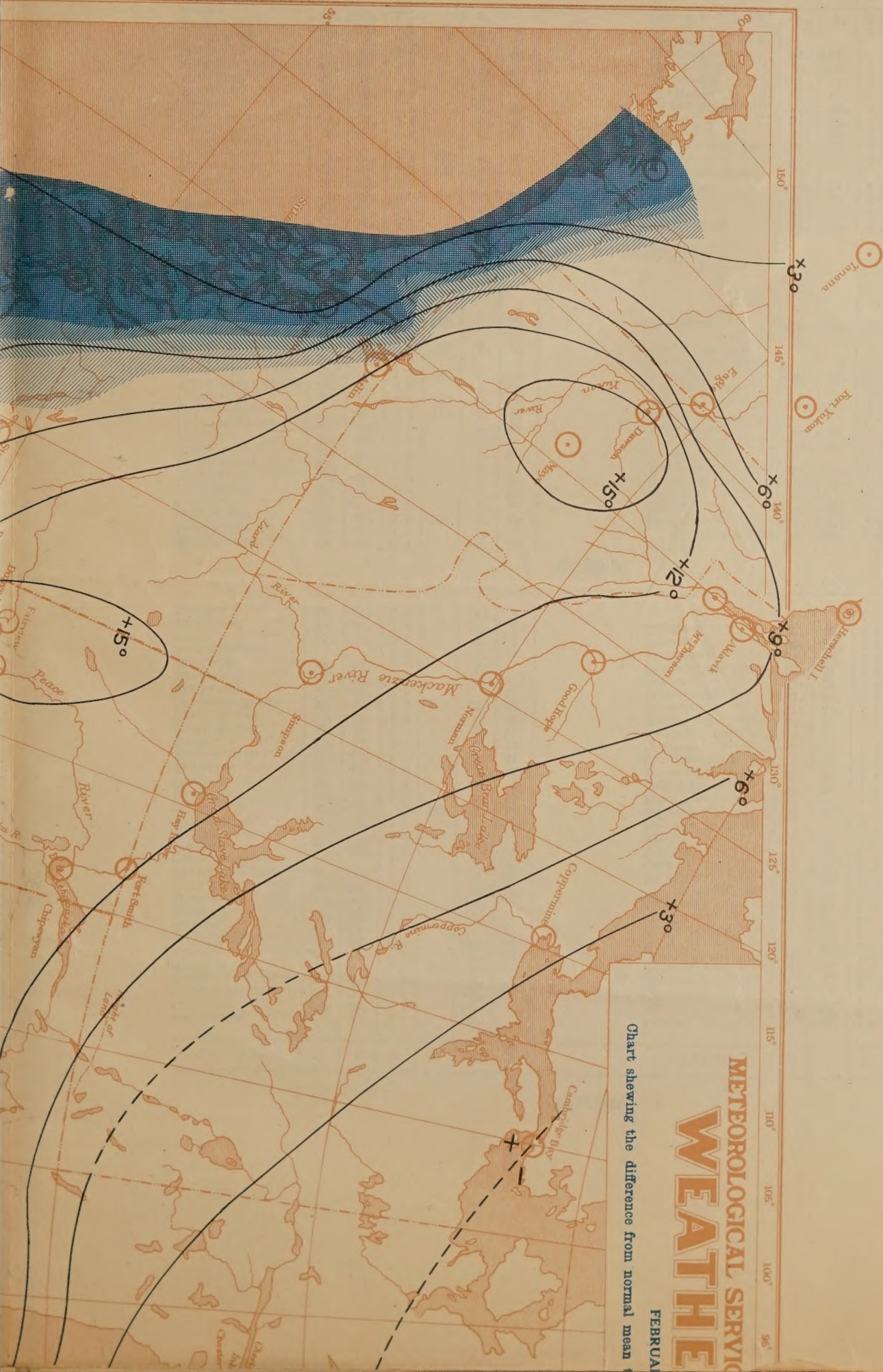


Chart shewing the difference from normal mean

FEBRUARY

METEOROLOGICAL SERVICE
WEATHER

